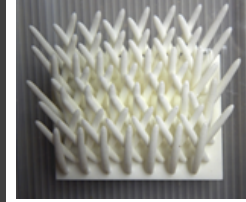




UA team startup Hedgemon, is solving concussion problems in football players, hedgehog inspired!



IDEA > BRAINSTORMING > TEAM BUILDING > PROTOTYPING > CUSTOMER DISCOVERY

LIMITED ENROLLMENT(20)

The University of Akron

Biomimicry+Startups = Success

SPRING 2020 TECHNICAL ELECTIVE: Technology Based Startups: Biomimetics Focus

FOR ALL ARTS & SCIENCE, ENGINEERING, BUSINESS UNDERGRADUATE STUDENTS: *Join us on an exciting journey ! This is an interdisciplinary course that teaches you the first steps to create a tech based venture.*

- » Do you want to learn how technology based startups get started?
- » Interested in working in a diverse interdisciplinary team ? Brainstorm ideas, create prototypes?
- » Do you want to create biologically inspired designs to solve real problems?
- » **Enjoy small class sizes combined with practical learning? Then this class is for you!**

Course Overview

Open to all UA students, in this elective you will learn how nature has evolved designs to solve a variety of complex problems through practical examples from world class instructors who work in the field of Biomimicry at UA. You will form small teams, learn to brainstorm, and come up with ideas for real world applications. Teams are awarded up to \$500 to develop prototypes and work on customer discovery. This is a hands on project oriented course that seeks to create interdisciplinary groups of science majors, business students & engineers to create startup teams to learn how to commercialize breakthrough ideas. Class projects can be either focused on biomimicry or other technologies. The University of Akron has a rich treasure trove of patents that could be also be mined for projects ideas. Examples range from Gecko inspired adhesives, fibers inspired by spider silk, mussel based underwater adhesives, to structural colors based on bird feathers and butterflies etc. If you have other startup ideas based on your current research or senior design projects, you are welcome to explore them after getting approval from the instructor.

You will learn to

- » Use nature as inspiration to solve real problems
- » Explore whether proposed solution solves a real need
- » Create & validate a model/prototype
- » Learn how to present, network and validate a business idea!

Course Information

Tuesdays/Thursdays 5:45- 7:00 p.m., Room: TBD Credits: 3 Selected Topics Engineering ST 4600:486-805 (Undergraduate)

For more details Contact: Dr. Gopal Nadkarni (330-972-7348) Email: gopal@uakron.edu

Contact your department to find out if you can take this course as an **Tech. Elective or as a **special topic** for credit.**

Student Quote "A fantastic class! I always wondered how a person takes an idea and turns it into a business, and now I think I have a good idea about it"

WORK IN CROSS-DISCIPLINARY TEAMS TO DISCOVER THE BUSINESS POTENTIAL OF TECHNOLOGY SOLUTIONS & MAKE AN IMPACT!